OMB Approval Number: 2050-0095
Approved for Use Through: 1/92

PA-Score

PA Scoresheets

Site Name: BENDIX-TETERBORO FACILITY
CERCLIS ID No.: NJD078714433
Street Address: ROUTE 46
City/State/Zip: TETERBORO, NJ 07608

Investigator: DAVID E. TRIGGS
Agency/Organization: NJDEPE/RPSR/BSA
Street Address: 300 HORIZON CENTER
City/State: ROBBINSVILLE, NJ

Date: 03/19/92

148549

OMB Approval Number: 2050-0095
Approved for Use Through: 1/92

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NJ	CERCLIS Number: NJD078714433
	CERCLIS Discovery Date: 12/28/87	

1. General Site Information

Name:		Street Address:			
BENDIX-TETERBORO FACILITY		ROUTE 46			
City:	State:	Zip Code:	County:	Co. Code:	Cong. Dist:
TETERBORO	NJ	07608	BERGEN		09
Latitude: Longitude:		Approx. Area of Site:		Status of Site:	
40° 51' 44.0" 74° 3' 49.0"		71 acres		Active	

2. Owner/Operator Information

Owner:			Operator:		
ALLIED BENDIX AEROSPACE			ALLIED BENDIX AEROSPACE		
Street Address:			Street Address:		
ROUTE 46			ROUTE 46		
City:			City:		
TETERBORO			TETERBORO		
State:	Zip Code:	Telephone:	State:	Zip Code:	Telephone:
NJ	07608	201-288-2000	NJ	07608	201-288-2000
Type of Ownership:			How Initially Identified:		
Private			State/Local Program		

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
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	CERCLIS Discovery Date: 12/28/87	

3. Site Evaluator Information

Name of Evaluator:	Agency/Organization:	Date Prepared:
DAVID E. TRIGGS	NJDEPE/RPSR/BSA	03/19/92

Street Address:	City:	State:
300 HORIZON CENTER	ROBBINSVILLE	NJ

Name of EPA or State Agency Contact:	Telephone:
KENNETH J. KLOO	609-584-4280

Street Address:	City:	State:
300 HORIZON CENTER	ROBBINSVILLE	NJ

4. Site Disposition (for EPA use only)

Emergency Response/Removal Assessment Recommendation: No Date:	CERCLIS Recommendation: Other UNDER ECRA Date: 03/19/92	Signature: Name: DAVID E. TRIGGS Position: HSMS

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
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	CERCLIS Discovery Date: 12/28/87	

5. General Site Characteristics

Predominant Land Uses Within 1 Mile of Site:	Site Setting:	Years of Operation:
Industrial	Urban	Beginning Year: 1937 Ending Year: 1992

Type of Site Operations:	Waste Generated:
Other: MANUFACTURE OF ELECTRONIC EQUIPMENT	Onsite
	Waste Deposition Authorized By: Present Owner
	Waste Accessible to the Public: No
	Distance to Nearest Dwelling, School, or Workplace: 50 Feet

6. Waste Characteristics Information

Source Type	Quantity	Tier
Non-drum containers	1.00e+05 gals	V
Drums	1.00e+02 drums	V
Non-drum containers	5.00e+05 gals	V

Tier Legend
C = Constituent W = Wastestream
V = Volume A = Area

General Types of Waste:
Metals
Organics
Inorganics
Solvents

Physical State of Waste as Deposited
Solid
Liquid

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NJ	CERCLIS Number: NJD078714433
	CERCLIS Discovery Date: 12/28/87	

7. Ground Water Pathway

Is Ground Water Used for Drinking Water Within 4 Miles:
No

Type of Ground Water Wells Within 4 Miles:
Municipal
Private

Depth to Shallowest Aquifer:
5 Feet

Karst Terrain/Aquifer Present:
No

Is There a Suspected Release to Ground Water:
Yes

Have Primary Target Drinking Water Wells Been Identified: No

Nearest Designated Wellhead Protection Area:
None within 4 Miles

List Secondary Target Population Served by Ground Water Withdrawn From:

0 - 1/4 Mile	0
>1/4 - 1/2 Mile	0
>1/2 - 1 Mile	0
>1 - 2 Miles	5000
>2 - 3 Miles	6000
>3 - 4 Miles	3500
Total	14500

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NJ	CERCLIS Number: NJD078714433
	CERCLIS Discovery Date: 12/28/87	

8. Surface Water Pathway — Part 1 of 4

Type of Surface Water Draining Site and 15 Miles Downstream:	Shortest Overland Distance From Any Source to Surface Water:
Stream River Other: RESERVOIR	100 Feet 0.0 Miles
Is there a Suspected Release to Surface Water: Yes	Site is Located in: >100 yr - 500 yr floodpla

8. Surface Water Pathway — Part 2 of 4

Drinking Water Intakes Along the Surface Water Migration Path: Yes

Have Primary Target Drinking Water Intakes Been Identified: No

Secondary Target Drinking Water Intakes:

Name	Water Body/Flow(cfs)	Population Served
HAWORTH	large river/ >10000	750000
	Total Within 15 Miles:	750000

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NJ	CERCLIS Number: NJD078714433
	CERCLIS Discovery Date: 12/28/87	

8. Surface Water Pathway — Part 3 of 4

Fisheries Located Along the Surface Water Migration Path: Yes

Have Primary Target Fisheries Been Identified: No

Secondary Target Fisheries:

Fishery Name	Water Body Type/Flow(cfs)
HACKENSACK RIVER	large stream/river/ >1000-10000
ORADELL RESERVOIR	large river/ >10000

8. Surface Water Pathway — Part 4 of 4

Wetlands Located Along the Surface Water Migration Path? (y/n) No

Have Primary Target Wetlands Been Identified? (y/n) No

Secondary Target Wetlands:
None

Other Sensitive Environments Along the Surface Water Migration Path: Yes

Have Primary Target Sensitive Environments Been Identified: No

Secondary Target Sensitive Environments:

Water Body/Flow(cfs)	Sensitive Environment Type
large stream/river/ >1000-10000	FRESHWATER WETLANDS
large river/ >10000	FRESHWATER WETLANDS

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
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	CERCLIS Discovery Date: 12/28/87	

9. Soil Exposure Pathway

Are People Occupying Residences or Attending School or Daycare on or Within 200 Feet of Areas of Known or Suspected Contamination: No

Number of Workers Onsite: 101 - 1000

Have Terrestrial Sensitive Environments Been Identified on or Within 200 Feet of Areas of Known or Suspected Contamination: No

10. Air Pathway

Total Population on or Within:	
Onsite	0
0 - 1/4 Mile	900
>1/4 - 1/2 Mile	27
>1/2 - 1 Mile	1000
>1 - 2 Miles	50000
>2 - 3 Miles	75000
>3 - 4 Miles	80000
Total	206927

Is There a Suspected Release to Air: Yes

Wetlands Located Within 4 Miles of the Site: No

Other Sensitive Environments Located Within 4 Miles of the Site: No

Sensitive Environments Within 1/2 Mile of the Site:
None

WASTE CHARACTERISTICS

Waste Characteristics (WC) Calculations:

1 ELECTRONICS	Non-drum containers	WQ value	maximum
Volume	1.00E+05 gals	2.00E+02	2.00E+02
2 ELECTRONICS	Drums	WQ value	maximum
Volume	1.00E+02 drums	1.00E+01	1.00E+01
3 ELECTRONICS	Non-drum containers	WQ value	maximum
Volume	5.00E+05 gals	1.00E+03	1.00E+03

WQ total 1.21E+03

Waste Characteristics Score: WC = 32

Ground Water Pathway Criteria List
Suspected Release

Are sources poorly contained? (y/n/u)	N
Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)	N
Is waste quantity particularly large? (y/n/u)	Y
Is precipitation heavy? (y/n/u)	Y
Is the infiltration rate high? (y/n/u)	N
Is the site located in an area of karst terrain? (y/n)	N
Is the subsurface highly permeable or conductive? (y/n/u)	N
Is drinking water drawn from a shallow aquifer? (y/n/u)	Y
Are suspected contaminants highly mobile in ground water? (y/n/u)	Y
Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u)	Y
Other criteria? (y/n)	N
SUSPECTED RELEASE? (y/n)	Y

Summarize the rationale for Suspected Release:

GROUNDWATER SAMPLING HAS CONFIRMED THE PRESENCE OF CONTAMINANTS.

Ground Water Pathway Criteria List
Primary Targets

Is any drinking water well nearby? (y/n/u)	N
Has any nearby drinking water well been closed? (y/n/u)	N
Has any nearby drinking water well user reported foul-testing or foul-smelling water? (y/n/u)	N
Does any nearby well have a large drawdown/high production rate? (y/n/u)	N
Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? (y/n/u)	N
Does analytical or circumstantial evidence suggest contamination at a drinking water well? (y/n/u)	N
Does any drinking water well warrant sampling? (y/n/u)	N
Other criteria? (y/n)	N
PRIMARY TARGET(S) IDENTIFIED? (y/n)	**N**

Summarize the rationale for Primary Targets:

GROUND WATER PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do you suspect a release? (y/n)	Yes	
Is the site located in karst terrain? (y/n)	No	
Depth to aquifer (feet):	5	
Distance to the nearest drinking water well (feet):	5280	

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550		
2. NO SUSPECTED RELEASE		0	
LR =	550	0	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N	204	0	
5. NEAREST WELL	5	0	
6. WELLHEAD PROTECTION AREA None within 4 Miles	0	0	
7. RESOURCES	5	0	
T =	214	0	

WASTE CHARACTERISTICS

WC =	32	0

GROUND WATER PATHWAY SCORE: 46

Ground Water Target Populations

Primary Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
None				
			Total	

Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	0		0
Greater than 1/4 to 1/2 mile	0		0
Greater than 1/2 to 1 mile	0		0
Greater than 1 to 2 miles	5000		94
Greater than 2 to 3 miles	6000		68
Greater than 3 to 4 miles	3500		42
		Total	204

Apportionment Documentation for a Blended System

Surface Water Pathway Criteria List Suspected Release	
Is surface water nearby? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	Y
Is the drainage area large? (y/n/u)	Y
Is rainfall heavy? (y/n/u)	Y
Is the infiltration rate low? (y/n/u)	Y
Are sources poorly contained or prone to runoff or flooding? (y/n/u)	N
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u)	Y
Is vegetation stressed along the probable runoff path? (y/n/u)	N
Are sediments or water unnaturally discolored? (y/n/u)	N
Is wildlife unnaturally absent? (y/n/u)	N
Has deposition of waste into surface water been observed? (y/n/u)	N
Is ground water discharge to surface water likely? (y/n/u)	Y
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)	Y
Other criteria? (y/n) N	
SUSPECTED RELEASE? (y/n)	Y

Summarize the rationale for Suspected Release:

SAMPLES COLLECTED FROM A DRAINAGE DITCH RUNNING ADJACENT TO THE SITE INDICATE CONTAMINATION. THE DITCH IS USED BY A VARIETY OF INDUSTRY UPSTREAM OF THE FACILITY.

Surface Water Pathway Criteria List
Primary Targets

Is any target nearby? (y/n/u) If yes: N
- N Drinking water intake
- N Fishery
- N Sensitive environment

Has any intake, fishery, or recreational area been closed? (y/n/u) N

Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a target? (y/n/u) Y

Does any target warrant sampling? (y/n/u) If yes: N
- N Drinking water intake
- N Fishery
- N Sensitive environment

Other criteria? (y/n) N

PRIMARY INTAKE(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Intakes:

THERE IS ONE SURFACE WATER INTAKE 7 MILES DOWNSTREAM OF THE FACILITY

continued -------

continued -------

Other criteria? (y/n) N

PRIMARY FISHERY(IES) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Fisheries:

Other criteria? (y/n) N

PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Sensitive Environments:

SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics		Ref.
Do you suspect a release? (y/n)	Yes	
Distance to surface water (feet):	100	
Flood frequency (years):	500	
What is the downstream distance (miles) to: a. the nearest drinking water intake? b. the nearest fishery? c. the nearest sensitive environment?	 7.0 2.0 2.0	

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550		
2. NO SUSPECTED RELEASE		0	
LR =	550	0	

Drinking Water Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	5	0	
6. NEAREST INTAKE	0	0	
7. RESOURCES	5	0	
T =	10	0	

Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
1 HAWORTH	N	>10000 cfs	750000		0

Total Primary Target Population Value	0
Total Secondary Target Population Value	0

Apportionment Documentation for a Blended System

Human Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	0		
10. SECONDARY FISHERIES	210	0	
T =	210	0	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 HACKENSACK RIVER	N	>1000-10000 cfs		12
2 ORADELL RESERVOIR	N	>10000 cfs		12

Total Primary Fisheries Value	0
Total Secondary Fisheries Value	24

Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	0		
13. SECONDARY SENSITIVE ENVIRONS.	10	0	
T =	10	0	

Environmental Threat Targets

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 HACKENSACK RIVER	N	>1000-10000 cfs		12
2 ORADELL RESERVOIR	N	>10000 cfs		12
None				

Total Primary Sensitive Environments Value	0
Total Secondary Sensitive Environments Value	0

Surface Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score	Targets(T) Score	Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	550	10	32	2
Human Food Chain	550	210	32	45
Environmental	550	10	32	2

SURFACE WATER PATHWAY SCORE: 49

Soil Exposure Pathway Criteria List
Resident Population

Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? (y/n/u)	N
Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? (y/n/u)	N
Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? (y/n/u)	N
Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? (y/n/u)	N
Does any neighboring property warrant sampling? (y/n/u)	Y

Other criteria? (y/n) N

RESIDENT POPULATION IDENTIFIED? (y/n) N

Summarize the rationale for Resident Population:

AN ADJACENT FACILITY IS UNDERGOING A RADIOLOGICAL SURVEY FROM PAST INDUSTRIAL ACTIVITIES NOT RELATED TO BENDIX.

SOIL EXPOSURE PATHWAY SCORESHEETS

Pathway Characteristics		Ref.
Do any people live on or within 200 ft of areas of suspected contamination? (y/n)	No	
Do any people attend school or daycare on or within 200 ft of areas of suspected contamination? (y/n)	No	
Is the facility active? (y/n):	Yes	

LIKELIHOOD OF EXPOSURE	Suspected Contamination	References
1. SUSPECTED CONTAMINATION LE =	550	

Targets

2. RESIDENT POPULATION 0 resident(s) 0 school/daycare student(s)	0	
3. RESIDENT INDIVIDUAL	0	
4. WORKERS 101 - 1000	10	
5. TERRES. SENSITIVE ENVIRONMENTS	0	
6. RESOURCES	5	
T =	15	

WASTE CHARACTERISTICS

WC = 32

RESIDENT POPULATION THREAT SCORE: 3

NEARBY POPULATION THREAT SCORE: 1

Population Within 1 Mile: 1 - 10,000

SOIL EXPOSURE PATHWAY SCORE: 4

Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
None		
Total Terrestrial Sensitive Environments Value		

Air Pathway Criteria List
Suspected Release

Are odors currently reported? (y/n/u)	N
Has release of a hazardous substance to the air been directly observed? (y/n/u)	Y
Are there reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air? (y/n/u)	N
Does analytical/circumstantial evidence suggest release to air? (y/n/u)	Y
Other criteria? (y/n) N	
SUSPECTED RELEASE? (y/n)	Y

Summarize the rationale for Suspected Release:

PRIOR TO 1967 BENDIX BURNED WOOD, GREASE AND MAGNESIUM CHIPS IN OPEN PITS WHICH MAY HAVE RESULTED IN THE RELEASE OF HAZARDOUS PARTICULATES.

AIR PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do you suspect a release? (y/n)	Yes	
Distance to the nearest individual (feet):	5280	

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550		
2. NO SUSPECTED RELEASE		0	
LR =	550	0	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 900 person(s)	9000		
4. SECONDARY TARGET POPULATION	47	0	
5. NEAREST INDIVIDUAL	50	0	
6. PRIMARY SENSITIVE ENVIRONS.	0		
7. SECONDARY SENSITIVE ENVIRONS.	0	0	
8. RESOURCES	5	0	
T =	9102	0	

WASTE CHARACTERISTICS

WC =	32	0

AIR PATHWAY SCORE: 100

Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	N.A.		0
Greater than 0 to 1/4 mile	N.A.		0
Greater than 1/4 to 1/2 mile	27		0
Greater than 1/2 to 1 mile	1000		1
Greater than 1 to 2 miles	50000		27
Greater than 2 to 3 miles	75000		12
Greater than 3 to 4 miles	80000		7
		Total Secondary Population Value	47

Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
None		
Total Primary Sensitive Environments Value		

Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
None			
Total Secondary Sensitive Environments Value			

SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	46
SURFACE WATER PATHWAY SCORE:	49
SOIL EXPOSURE PATHWAY SCORE:	4
AIR PATHWAY SCORE:	100
SITE SCORE:	60

SUMMARY

1. Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water? No

   If yes, identify the well(s).

   If yes, how many people are served by the threatened well(s)? 0

2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?
   A. Drinking water intake — No
   B. Fishery — No
   C. Sensitive environment (wetland, critical habitat, others) — No

   If yes, identity the target(s).

3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? No

   If yes, identify the properties and estimate the associated population(s)

4. Are there public health concerns at this site that are not addressed by PA scoring considerations? No

   If yes, explain: